

## Abstract

The invention relates to a method for determining a mimotope sequence for a receptor, ~~comprising the steps of:~~

- ~~a) providing a library of test sequences;~~
- ~~b) determining the activity of each test sequence of the library towards the receptor;~~  
~~identifying a test sequence comprising at a certain position a building block which, according to the results of step b), is favored at said position;~~
- ~~d) providing a next library of test sequences, based on said test sequence identified in step c), by replacing a building block at selected positions of the identified test sequence with selected building blocks;~~
- ~~e) determining the activity of each test sequence of the library provided in step d) towards the receptor;~~
- ~~f) identifying a test sequence comprising at a certain position a building block which, according to the results of step c), is favored at said position;~~
- ~~g) repeating steps d) -- f) for the library of test sequences provided in step d), for a number of cycles sufficient for finding in step f) a mimotope sequence that gives sufficient activity towards the receptor.~~